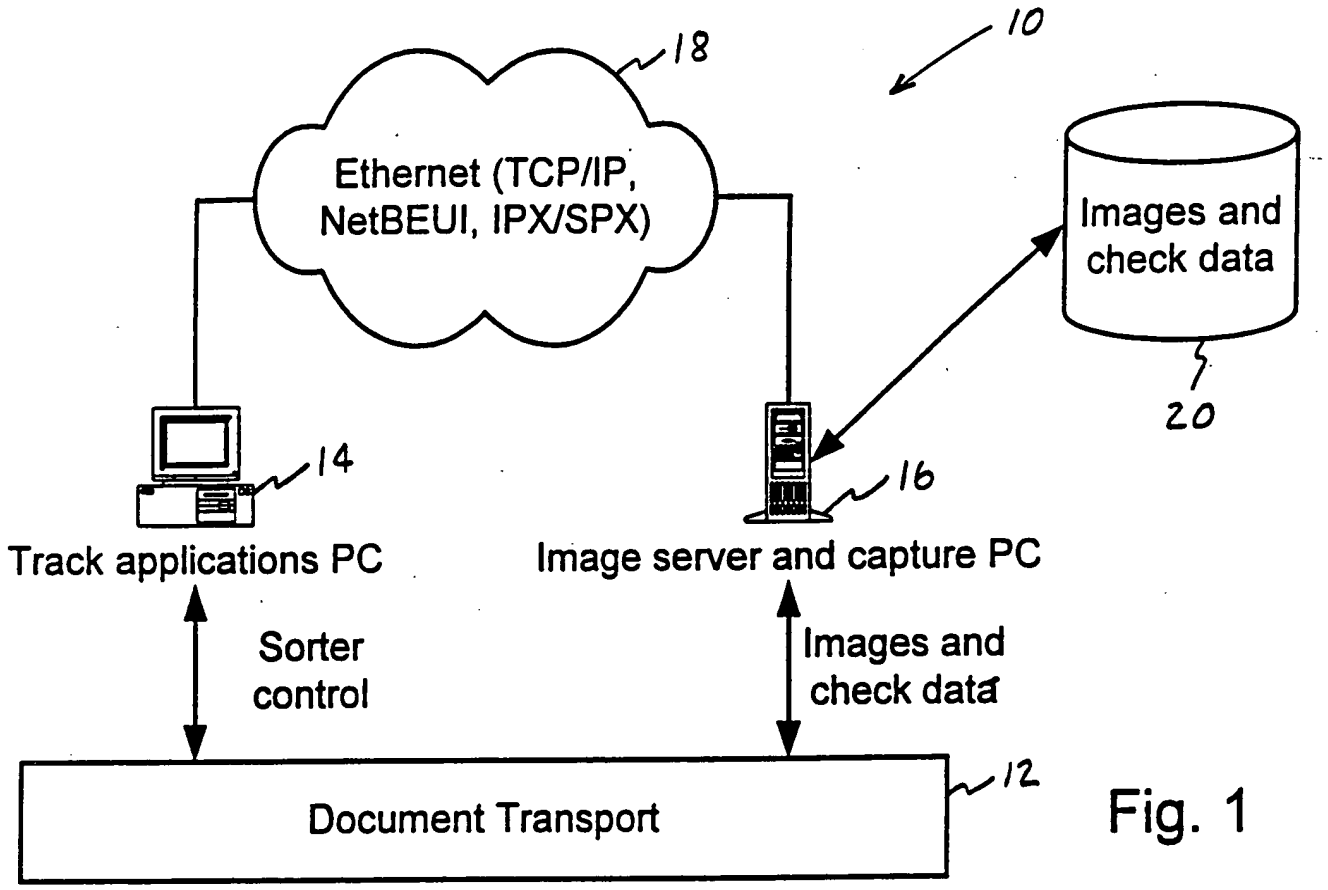

Fig. 1

BEST AVAILABLE COPY

```
<!--

   DTD For Unisys CAPI IDX Image Storage Files                    } 40
   (c) 2002 Unisys Corporation

 -->

<!DOCTYPE idx [                                                   } 42

<!ELEMENT idx (head,sorter*,items)>                               } 44
<!ATTLIST idx
        xmlns CDATA #FIXED "http://www.unisys.com/marketplace/psd/2002/idx/"
        xmlns:xlink CDATA #FIXED "http://www.w3.org/1999/xlink"
        platform (sourcendp | ndp30-60 | mediumspeed | highspeed) #REQUIRED >   } 46

<!ELEMENT head (annotation?,icrdir?,imagestore+)>                 } 48

<!ELEMENT annotation (#PCDATA)>                                   } 50
<!ATTLIST annotation
        content-type (text/plain | text/xml) "text/plain"         } 52
        encoding (base64 | none) "none">

<!ELEMENT icrdir (#PCDATA)>                                       } 54

<!ELEMENT imagestore EMPTY>
<!--                                                              } 56
        imagestore id values: front1, front2, rear1, rear2, snippet
-->
<!ATTLIST imagestore
        id ID #REQUIRED
        xlink:type (simple | extended | locator | arc | resource | title | none) "simple"   } 58
        xlink:href CDATA #REQUIRED>

<!ELEMENT sorter EMPTY>                                           } 60
<!ATTLIST sorter
        id ID #REQUIRED>                                          } 62

<!ELEMENT items (item*)>                                          } 64
<!ELEMENT item (image+, userdata?)>                               } 66
```

B

FIGURE 2A

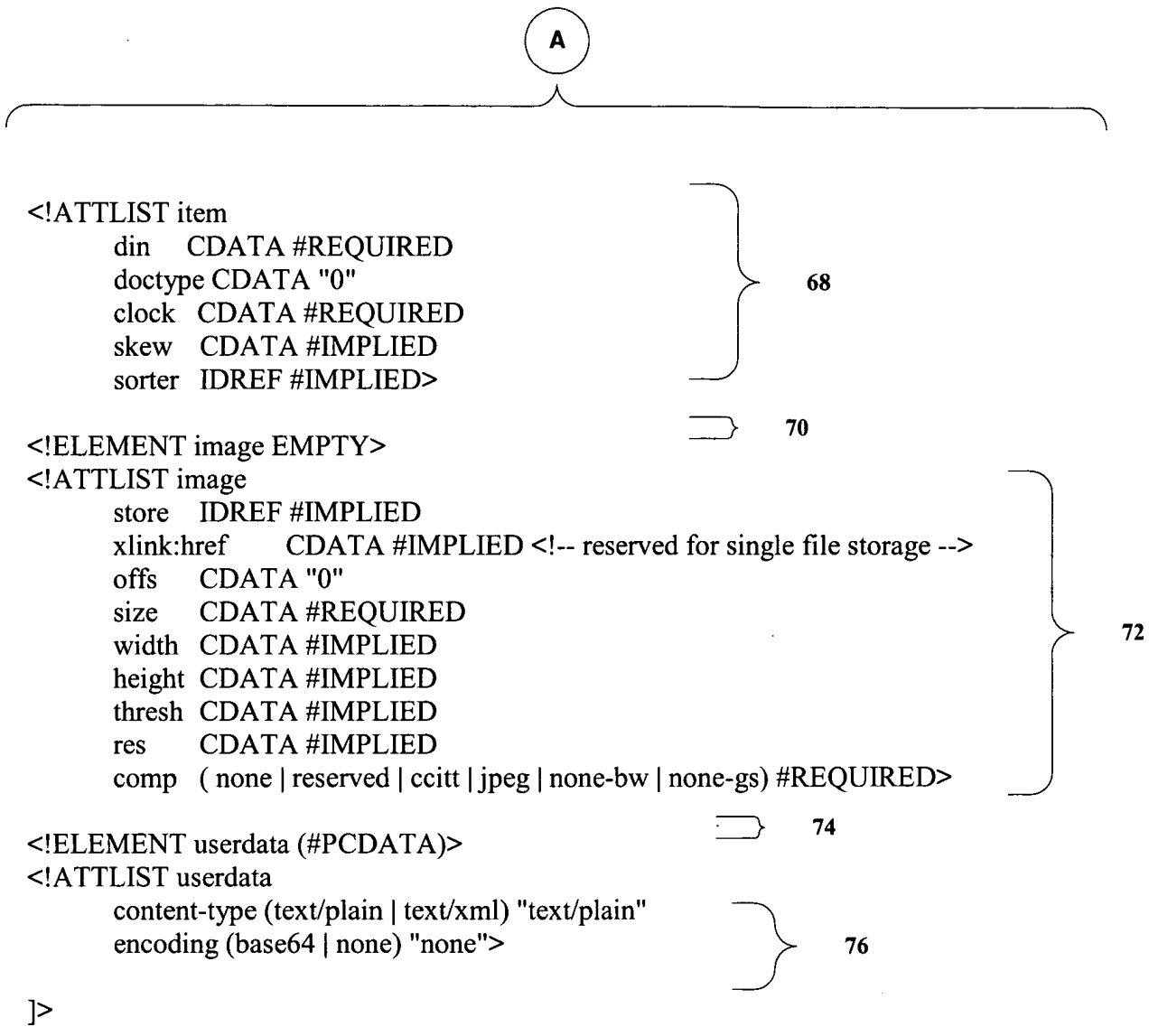
A
<!ATTLIST item
din CDATA #REQUIRED
doctype CDATA "0"
clock CDATA #REQUIRED
skew CDATA #IMPLIED
sorter IDREF #IMPLIED>
68
70
<!ELEMENT image EMPTY>
<!ATTLIST image
store IDREF #IMPLIED
xlink:href CDATA #IMPLIED <!-- reserved for single file storage -->
offs CDATA "0"
size CDATA #REQUIRED
width CDATA #IMPLIED
height CDATA #IMPLIED
thresh CDATA #IMPLIED
res CDATA #IMPLIED
comp (none | reserved | ccitt | jpeg | none-bw | none-gs) #REQUIRED>
72
74
<!ELEMENT userdata (#PCDATA)>
<!ATTLIST userdata
content-type (text/plain | text/xml) "text/plain"
encoding (base64 | none) "none">
76
]>

FIGURE 2B

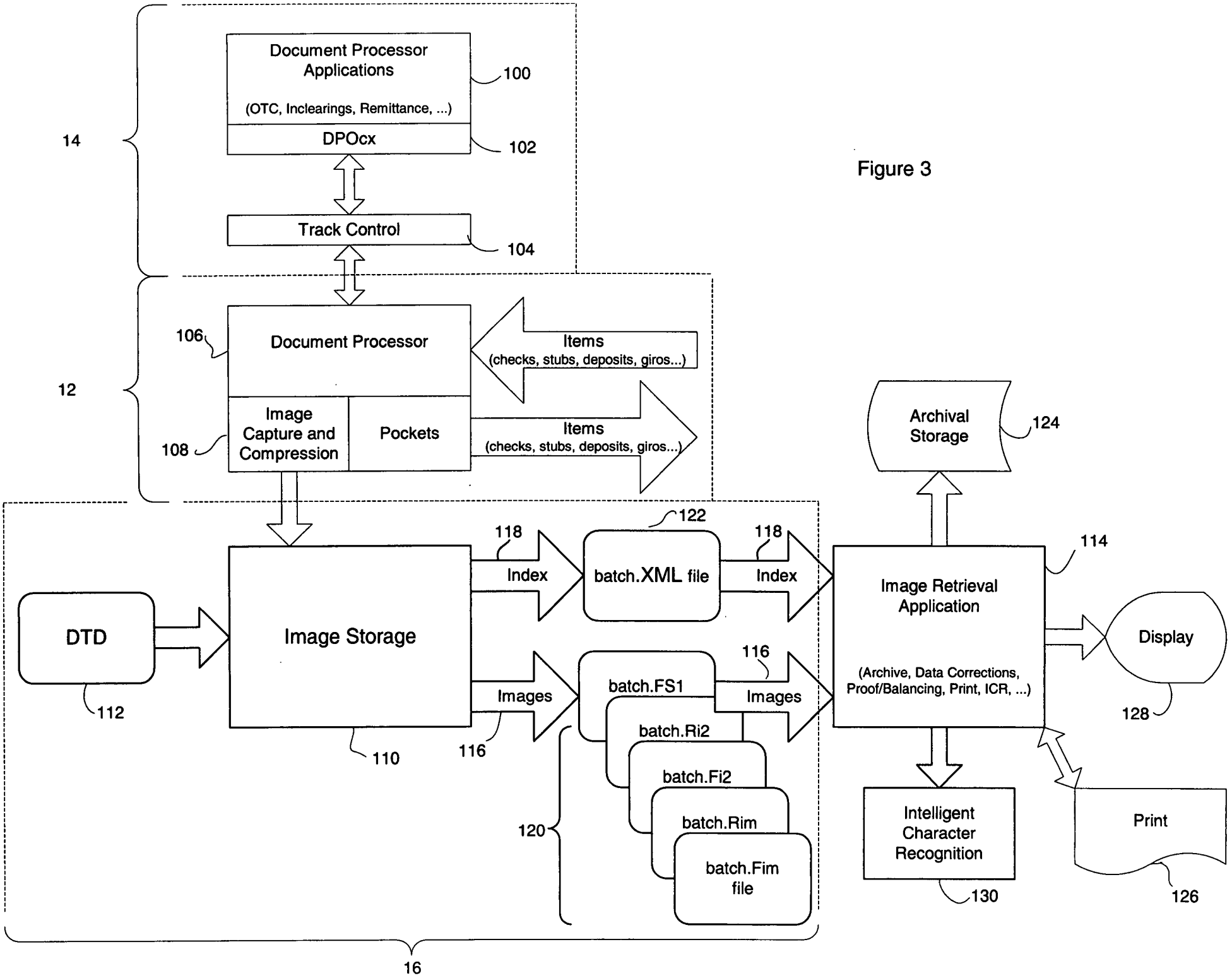
Document Processor Applications
(OTC, Inclearings, Remittance, ...)
100
DPOcx
102
Track Control
104
14
12
106
Document Processor
Items
(checks, stubs, deposits, giros...)
Image Capture and Compression
108
Pockets
Items
(checks, stubs, deposits, giros...)
Archival Storage
124
122
118
Index
batch.XML file
118
Index
114
Image Retrieval Application
(Archive, Data Corrections, Proof/Balancing, Print, ICR, ...)
Display
128
DTD
112
Image Storage
110
116
Images
batch.FS1
116
Images
batch.Ri2
batch.Fi2
batch.Rim
batch.Fim file
120
Intelligent Character Recognition
130
Print
126
16

Figure 3

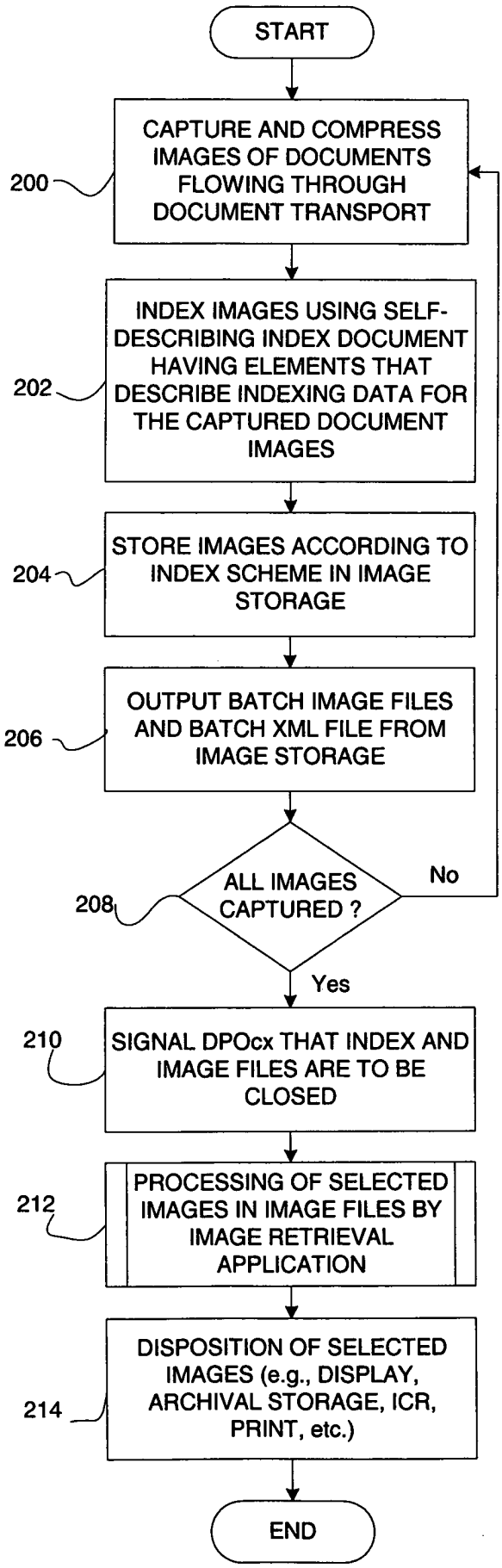
START
CAPTURE AND COMPRESS IMAGES OF DOCUMENTS FLOWING THROUGH DOCUMENT TRANSPORT
200
INDEX IMAGES USING SELF-DESCRIBING INDEX DOCUMENT HAVING ELEMENTS THAT DESCRIBE INDEXING DATA FOR THE CAPTURED DOCUMENT IMAGES
202
STORE IMAGES ACCORDING TO INDEX SCHEME IN IMAGE STORAGE
204
OUTPUT BATCH IMAGE FILES AND BATCH XML FILE FROM IMAGE STORAGE
206
ALL IMAGES CAPTURED ?
208
No
Yes
SIGNAL DPOcx THAT INDEX AND IMAGE FILES ARE TO BE CLOSED
210
PROCESSING OF SELECTED IMAGES IN IMAGE FILES BY IMAGE RETRIEVAL APPLICATION
212
DISPOSITION OF SELECTED IMAGES (e.g., DISPLAY, ARCHIVAL STORAGE, ICR, PRINT, etc.)
214
END

FIGURE 4